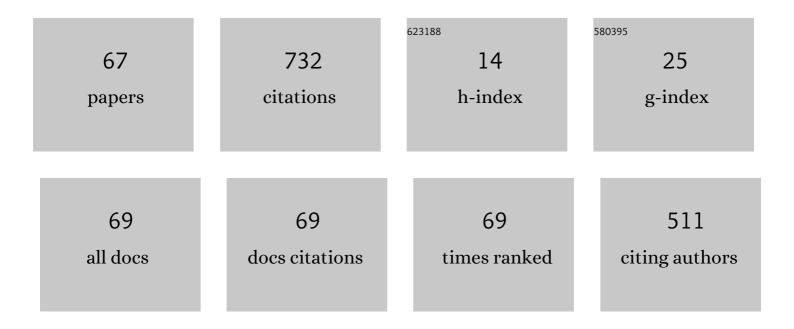
## Eric Larkins

List of Publications by Year in descending order

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FRICLARKINS

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Impact of unintentional external feedback on the performance of high-power tapered lasers. , 2017, , .  |     | 2         |
| 2  | Investigating the use of a hybrid plasmonic–photonic nanoresonator for optical trapping using finite-difference time-domain method. Optical and Quantum Electronics, 2016, 48, 1.   | 1.5 | 11        |
| 3  | High-power operation of coherently coupled tapered laser diodes in an external cavity. , 2016, , .  |     | 2         |
| 4  | Separate phase-locking and coherent combining of two laser diodes in a Michelson cavity.<br>Proceedings of SPIE, 2015, , .  | 0.8 | 3         |
| 5  | Design and simulation of high-speed nanophotonic electro-optic modulators. , 2014, , .  |     | Ο         |
| 6  | Preface for HPD'13 special issue. , 2013, , .   |     | 0         |
| 7  | Emulation of the operation and degradation of high-power laser bars using simulation tools.<br>Semiconductor Science and Technology, 2012, 27, 094012.  | 1.0 | 8         |
| 8  | Factors influencing the brightness and beam quality of tapered laser diodes and bars. , 2012, , .   |     | 2         |
| 9  | Elimination of numerical underflow in the modelling of optoelectronic devices using multiple precision. , 2011, , .   |     | Ο         |
| 10 | Numerical modeling in photonic crystals integrated technology: The COPERNICUS Project. , 2011, , .  |     | 0         |
| 11 | Volume Bragg grating external cavities for the passive phase locking of high-brightness diode laser<br>arrays: theoretical and experimental study. Journal of the Optical Society of America B: Optical<br>Physics, 2011, 28, 1289. | 0.9 | 12        |
| 12 | The impact of temperature and strain-induced band gap variations on current competition and emitter power in laser bars. Applied Physics Letters, 2011, 98, .   | 1.5 | 14        |
| 13 | Independent determination of In and N concentrations in GaInNAs alloys. Semiconductor Science and Technology, 2009, 24, 105016.   | 1.0 | 4         |
| 14 | Numerical modeling of photorefractive crystals for self-adapting external cavity laser mirrors.<br>Optical and Quantum Electronics, 2009, 41, 681-688.  | 1.5 | 0         |
| 15 | Wavelength-stabilized tapered laser diodes in an external Talbot cavity: simulations and experiments. ,<br>2009, , .  |     | Ο         |
| 16 | Reliability assessment and degradation analysis of 1.3â€,μm GalnNAs lasers. Journal of Applied Physics,<br>2009, 106, 093110.   | 1.1 | 1         |
| 17 | Inclusion of thermal boundary resistance in the simulation of high-power 980Ânm ridge waveguide<br>lasers. Optical and Quantum Electronics, 2008, 40, 373-377.  | 1.5 | 6         |
| 18 | Thermal performance investigation of DQW GaInNAs laser diodes. Optical and Quantum Electronics, 2008, 40, 385-390.  | 1.5 | 5         |

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|----|---|-----|-----------|
| 19 | Introduction to the OQE special issue on "Numeric Simulation of Optoelectronic Devices― Optical and Quantum Electronics, 2008, 40, 293-294.   | 1.5 | 0         |
| 20 | Numerical modeling of high-power self-organizing external cavity lasers. Optical and Quantum Electronics, 2008, 40, 1117-1121.  | 1.5 | 3         |
| 21 | Static and dynamic performance optimisation of a 1.3Âμ m GalnNAs ridge waveguide laser. Optical and<br>Quantum Electronics, 2008, 40, 1181-1186.  | 1.5 | 3         |
| 22 | Improvement of the beam quality of a broad-area diode laser using asymmetric feedback from an external cavity. Optical and Quantum Electronics, 2008, 40, 1097-1102.  | 1.5 | 9         |
| 23 | An investigation of thermal boundary resistance in 1.3 µm edgeâ€emitting dilute nitride quantum well<br>laser diodes. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 485-489.   | 0.8 | 1         |
| 24 | Thermally dependent gain of 1.3 Âμm dilute nitride double quantum well lasers. Physica Status Solidi C:<br>Current Topics in Solid State Physics, 2008, 5, 490-494.   | 0.8 | 1         |
| 25 | Photoluminescence microscopy investigation of lattice relaxation and defect formation processes in pseudomorphically strained InGaAsN multiple quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 467-472. | 0.8 | 2         |
| 26 | Narrow-line coherently combined tapered laser diodes in a Talbot external cavity with a volume Bragg grating. Applied Physics Letters, 2008, 93, 211102.  | 1.5 | 42        |
| 27 | Optimization of RF plasma sources for the MBE growth of nitride and dilute nitride semiconductor material. Semiconductor Science and Technology, 2007, 22, 15-19.   | 1.0 | 16        |
| 28 | High power 980 nm tapered lasers with separate contacts: numerical simulation and comparison with experiments. , 2007, , .  |     | 0         |
| 29 | The impact of hot-phonons on the performance of 1.3µm dilute nitride edge-emitting quantum well<br>lasers. Journal of Physics: Conference Series, 2007, 92, 012068.   | 0.3 | 10        |
| 30 | Simulation of Tapered Lasers with Separate Contacts. , 2007, , .  |     | 0         |
| 31 | Enhanced Brightness of Tapered Laser Diodes Based on an Asymmetric Epitaxial Design. IEEE Photonics<br>Technology Letters, 2007, 19, 1640-1642.   | 1.3 | 11        |
| 32 | The impact of nonequilibrium gain in a spectral laser diode model. Optical and Quantum Electronics, 2007, 38, 1019-1027.  | 1.5 | 16        |
| 33 | Introduction to the OQE Special Issue on "Numerical Simulation of Optoelectronic Devices― Optical and Quantum Electronics, 2007, 38, 933-934.   | 1.5 | 0         |
| 34 | The Impact of Nonequilibrium Gain in a Spectral Laser Model. , 2006, , .  |     | 0         |
| 35 | Efficient Near IR Photoluminescence from Gallium Nitride Layers Doped with Arsenic.<br>Semiconductors, 2005, 39, 73.  | 0.2 | 0         |
| 36 | Optimization of epitaxial layer design for high brightness tapered lasers. , 2005, , .  |     | 0         |

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | High-power diode lasers with an aluminium-free active region at 915 nm. , 2005, , .   |     | 1         |
| 38 | Fourier transform analysis method for modeling the positions and properties of cavity defects in<br>Fabry–Pérot laser diodes. Applied Physics Letters, 2005, 86, 061104.                              | 1.5 | 3         |
| 39 | By-emitter degradation analysis of high-power laser bars. Journal of Applied Physics, 2005, 98, 063101.   | 1.1 | 16        |
| 40 | lmaging of spontaneous emission from 980 nm tapered lasers with windowed N-contacts. EPJ Applied Physics, 2004, 27, 455-459.  | 0.3 | 2         |
| 41 | The study of strain and defects in high power laser diodes by spectroscopically resolved photoluminescence microscopy. EPJ Applied Physics, 2004, 27, 469-473.  | 0.3 | 3         |
| 42 | Photoluminescence from self-assembled GaAs inclusions embedded in a GaN host crystal. Physica<br>Status Solidi (B): Basic Research, 2003, 238, 204-212.   | 0.7 | 3         |
| 43 | Study of photoluminescence from self-formed GaAs nanocrystallites in As-doped GaN grown by molecular beam epitaxy. Semiconductor Science and Technology, 2003, 18, 997-1000.                          | 1.0 | 2         |
| 44 | Design of short-cavity, high-brightness 980 nm laser diodes with distributed phase correction. Applied<br>Physics Letters, 2002, 80, 3506-3508.   | 1.5 | 2         |
| 45 | Wideband finite-difference-time-domain beam propagation method. Microwave and Optical Technology<br>Letters, 2002, 34, 243-247.   | 0.9 | 14        |
| 46 | Improved refractive index formulas for the AlxGa1â^'xN and InyGa1â^'yN alloys. Journal of Applied Physics, 2001, 89, 1108-1115.   | 1.1 | 156       |
| 47 | Photoluminescence spectroscopy on annealed molecular beam epitaxy grown GaN. Journal of Applied<br>Physics, 2001, 89, 1070-1074.  | 1.1 | 19        |
| 48 | Determination of the band offset and the characteristic interdiffusion length in quantum-well lasers<br>using a capacitance–voltage technique. Applied Physics Letters, 2000, 77, 776-778.            | 1.5 | 5         |
| 49 | Optical and photoelectric study of mirror facets in degraded high power AlGaAs 808 nm laser diodes.<br>Journal of Applied Physics, 2000, 87, 3227-3233.   | 1.1 | 33        |
| 50 | Study of GaN thin layers subjected to high-temperature rapid thermal annealing. Semiconductors, 1998, 32, 1048-1053.  | 0.2 | 6         |
| 51 | Carrier profile for In0.35Ca0.65As/GaAs multiquantum well lasers from capacitance–voltage<br>measurements. Applied Physics Letters, 1996, 68, 1138-1140.  | 1.5 | 12        |
| 52 | Influence of interdiffusion processes on optical and structural properties of pseudomorphic<br>In0.35Ga0.65As/GaAs multiple quantum well structures. Journal of Applied Physics, 1996, 79, 6818-6825. | 1.1 | 19        |
| 53 | Process parameter dependence of impurity-free interdiffusion in GaAs/AlxGa1â^'xAs and InxGa1â^'yAs/GaAs<br>multiple quantum wells. Journal of Electronic Materials, 1995, 24, 805-812.                | 1.0 | 58        |
| 54 | Picosecond spectroscopy of optically modulated highâ€speed laser diodes. Applied Physics Letters, 1995,<br>67, 1809-1811.   | 1.5 | 6         |

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|----|--|-----|-----------|
| 55 | Tunneling assisted thermionic emission in doubleâ€barrier quantum well structures. Journal of Applied<br>Physics, 1995, 77, 2537-2543.   | 1.1 | 5         |
| 56 | Impurity free selective interdiffusion of pseudomorphic In <sub>y</sub> Ga <sub>1â^'y</sub> As/GaAs<br>multiple quantum well laser and modulator structures. Materials Science and Technology, 1995, 11,<br>840-844. | 0.8 | 3         |
| 57 | Field dependence of carrier capture in GaAs/AlAs/AlGaAs double-barrier quantum well structures.<br>Semiconductor Science and Technology, 1995, 10, 1329-1338.  | 1.0 | 6         |
| 58 | Gain switching in highâ€speed semiconductor lasers: Intermediateâ€signal analysis. Applied Physics<br>Letters, 1994, 65, 661-663.  | 1.5 | 5         |
| 59 | Nonresonant electron capture in GaAs/AlAs/AlGaAs doubleâ€barrier quantum well infrared detectors.<br>Applied Physics Letters, 1994, 64, 1015-1017.   | 1.5 | 4         |
| 60 | InGaAs/GaAs multiple-quantum-well modulators and switches. Optical and Quantum Electronics, 1993, 25, S865-S883.   | 1.5 | 26        |
| 61 | Strain relaxation in highâ€speedpâ€iâ€nphotodetectors with In0.2Ga0.8As/GaAs multiple quantum wells.<br>Applied Physics Letters, 1993, 63, 2920-2922.  | 1.5 | 15        |
| 62 | Spaceâ€charge effects in photovoltaic double barrier quantum well infrared detectors. Applied Physics<br>Letters, 1993, 63, 782-784.   | 1.5 | 32        |
| 63 | Monolayer-resolved x-ray-excited Auger-electron diffraction from single-plane emission in GaAs.<br>Physical Review B, 1993, 48, 11838-11845.   | 1.1 | 14        |
| 64 | Defect and strain redistribution in InxGa1â^'xAs/GaAs multiple quantum wells studied by resonant<br>Raman scattering. Applied Physics Letters, 1993, 63, 1842-1844.  | 1.5 | 13        |
| 65 | Diffusive electrical conduction in highâ€speedpâ€iâ€nphotodetectors. Applied Physics Letters, 1992, 60,<br>2648-2650.  | 1.5 | 18        |
| 66 | Influence of the As:Ga flux ratio on growth rate, interface quality, and impurity incorporation in<br>AlGaAs/GaAs quantum wells grown by molecular beam epitaxy. Applied Physics Letters, 1989, 54, 623-625.         | 1.5 | 20        |
| 67 | Reduction of the acceptor impurity background in GaAs grown by molecular beam epitaxy. Applied<br>Physics Letters, 1986, 49, 391-393.  | 1.5 | 27        |